

# Author Index

## Volume 65 (January–June 1998)

### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

* = Original Article	CV = Current Review	PA = Presidential Address
AB = Abstract	DI = Discussion	RE = Report
AN = Announcement	ED = Editorial	RV = Review of Recent Books
CN = CTSNet	HW = How to Do It	SH = Our Surgical Heritage
CP = Correspondence	IC = Invited Commentary	TR = Tribute
CR = Case Report	KR = Key References	UP = Update

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AB = Abstract  
AN = Announcement  
CN = CTSNet  
CP = Correspondence  
CR = Case Report

CV = Current Review  
DI = Discussion  
ED = Editorial  
HW = How to Do It  
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**Antibodies, monoclonal**

Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*

**Anticoagulants**

Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*

**Antifibrinolytic agents**

High-dose  $\epsilon$ -aminocaproic acid versus aprotinin: antifibrinolytic efficacy in first-time coronary operations (Eberle, Mayer, & others) 1998;65:667-73\*

**Antineoplastic agents**

Cytostatic lung perfusion by use of an endovascular blood flow occlusion technique (Furrer, Lardinois, & others) 1998;65:1523-8\*

**Aorta**

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Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92,CV

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Retrograde infusion of lidocaine or L-arginine before reperfusion reduces myocardial infarct size (Lee, Nitta, & others) 1998;65:1353-9\*

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**Biliopancreatic reflux**  
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**Biomechanics**  
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- Intraoperative gamma probe-directed biopsy of asymptomatic suspected bone metastases (Robinson, Preksto, & others) 1998;65:1426-32\*
- MRI as an alternative to CT-guided biopsy of adrenal masses in patients with lung cancer (Schwartz, Ginsberg, & others) 1998;65:193-7\*
- The role of open lung biopsy in the management and outcome of patients with diffuse lung disease (Kramer, Berkman, & others) 1998;65:198-202\*

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- Comprehensive multimodality blood conservation: 100 consecutive CABG operations without transfusion (Helm, Rosengart, & others) 1998;65:125-36\*
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- Activation of coagulation and fibrinolysis during cardiothoracic operations (Hunt, Parratt, & others) 1998;65:712-8\*
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- Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*
- Brain damage and myocardial dysfunction: protective effects of magnesium in the newborn pig (Caspi, Coles, & others) 1998;65:1730-6\*
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**Carcinoid tumor**  
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Operative risk and prognostic factors of typical bronchial carcinoid tumors (Ducrocq, Thomas, & others) 1998;65:1410-4\*

**Carcinoma**  
Esophageal carcinoma: depth of tumor invasion is predictive of regional lymph node status (Rice, Zuccaro, & others) 1998;65:787-92\*

**Carcinoma, non-small cell lung**  
Adrenalectomy for a solitary adrenal metastasis from lung cancer (Porte, Roumilhac, & others) 1998;65:331-5\*

"Incomplete resection" in non-small cell lung cancer: need for a new definition (Lacasse, Bucher, & others) 1998;65:220-6\*

Neoadjuvant and adjuvant trials in non-small cell lung cancer (Einhorn) 1998;65:208-11\*

Survival in resected stage I lung cancer with residual tumor at the bronchial resection margin (Snijder, Brutel de la Rivière, & others) 1998;65:212-6\*

Tumor angiogenesis as a prognostic marker in operable non-small cell lung cancer (Matsuyama, Chiba, & others) 1998;65:1405-9\*

**Cardiomyopathy, hypertrophic**  
Long-term follow-up in hypertrophic obstructive cardiomyopathy after septal myectomy (Schönbeck, Brunner-La Rocca, & others) 1998;65:1207-14\*

Modified Konno-Rastan procedure for subaortic stenosis: indications, operative techniques, and results (Roughneen, DeLeon, & others) 1998;65:1368-76\*

**Cardiomyoplasty**  
Effects of cardiomyoplasty on right ventricular filling during volume loading (Toyoda, Okada, & others) 1998;65:1676-9\*

Growth potential and left ventricular diastolic function in cardiomyoplasty (Misawa, Fuse, & others) 1998;65:1288-90\*

Mechanisms of cardiomyoplasty: comparative effects of adynamic versus dynamic cardiomyoplasty (Mott, Oh, & others) 1998;65:1039-45\*

Optimization of synchronization delay in latissimus dorsi dynamic cardiomyoplasty (Vural, Tasdemir, & others) 1998;65:1231-4\*

**Cardioplegic solutions**  
Effects of an angiotensin II antagonist on ischemic and non-ischemic isolated rat hearts (Paz, Gurevitch, & others) 1998;65:474-9\*

**Cardiopulmonary bypass**  
Accidental hyperperfusion during cardiopulmonary bypass: suggested safety features (Tempe & Khanna) 1998;65:306,CP

Activation of hemostasis during cardiopulmonary bypass and pediatric aprotinin dosage (Mössinger & Dietrich) 1998;65:S45-51\*

Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR

Alterations in renal microcirculation during cardiopulmonary bypass (Pathi, Morrison, & others) 1998;65:993-8\*

**Cardiopulmonary bypass (cont'd)**

Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*

Aprotinin enhances the endogenous release of interleukin-10 after cardiac operations (Hill, Diego, & others) 1998;65:66-9\*

Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*

$\beta$ -blockade as an alternative to cardioplegic arrest during cardiopulmonary bypass (Warters, Allen, & others) 1998;65:961-6\*

Brain damage during cardiopulmonary bypass (Taylor) 1998;65:S20-6\*

Cardiopulmonary bypass circuit treated with surface-modifying additives: a clinical evaluation of blood compatibility (Gu, Boonstra, & others) 1998;65:1342-7\*

Cardiopulmonary bypass time does not affect cerebral blood flow (Croughwell, Reves, & others) 1998;65:1226-30\*

Cardiotomy suction: a major source of brain lipid emboli during cardiopulmonary bypass (Brooker, Brown, & others) 1998;65:1651-5\*

Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*

Computer-controlled cardiopulmonary bypass increases jugular venous oxygen saturation during rewarming (Mutch, Lefevre, & others) 1998;65:59-65\*

Discussion 1998;65:S27-8,DI

Conversion from routine cardiopulmonary bypass to centrifugal mechanical assist by transaortic inflow cannulation of the left ventricle (Kalangos, Murith, & others) 1998;65:1168-70,HW

Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*

Effects of cardiopulmonary bypass and use of modified ultrafiltration (Ungerleider) 1998;65:S35-9\*

Effects of depletion of leukocytes and platelets on cardiac dysfunction after cardiopulmonary bypass (Chiba, Morioka, & others) 1998;65:107-13\*

A feasible femoral cannulation method during cardiopulmonary bypass (Satta, Rimpiläinen, & others) 1998;65:1194,CP; Reply (Vander Salm) 1998;65:1194-5,CP

Hyperglycemia during normothermic cardiopulmonary bypass: the role of the kidney (Braden, Cheema-Dhadli, & others) 1998;65:1588-93\*

Inflammatory mediators in adults undergoing cardiopulmonary bypass: comparison of centrifugal and roller pumps (Ashraf, Butler, & others) 1998;65:480-4\*

Introduction 1989;65:S1\*

Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*

Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*

A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW

Platelet and neutrophil activation during cardiac surgical procedures: impact of cardiopulmonary bypass (Morse, Adams, & Magnani) 1998;65:691-5\*

The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

Port-Access coronary artery bypass grafting with the use of cardiopulmonary bypass and cardioplegic arrest (Reichensperger, Gulielmos, & others) 1998;65:413-8\*

Reduction of allogeneic blood transfusions after open heart operations by lowering cardiopulmonary bypass prime volume (Shapira, Aldea, & others) 1998;65:724-30\*

Thromboxane production in human lung during cardiopulmonary bypass: beneficial effect of aspirin? (Erez, Erman, & others) 1998;65:101-6\*

Transition from cardiopulmonary bypass to the HeartMate left ventricular assist device (Tector, Kress, & others) 1998;65:643-6\*

**Cardiopulmonary bypass morbidity**

Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*

Brain damage during cardiopulmonary bypass (Taylor) 1998;65:S20-6\*

Discussion 1998;65:S27-8,DI

Introduction 1998;65:S1\*

Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*

**Cardiovascular abnormalities**

Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR

Sequestration of the lung arising from the circumflex coronary artery (Temes, Talbot, & others) 1998;65:257-9,CR

Should we address the course as well as the origin of a translocated anomalous coronary artery? (Black, McCrindle, & Freedom) 1998;65:248-50,CR

Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR

**Cardiovascular surgical procedures**

Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*

Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1998;65:592-3,UP

Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW

Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW

Trends in the management of tricuspid valve insufficiency (McElhinney, Reddy, & others) 1998;65:517-24\*

**Cardiovascular system**

The biology of estrogen-mediated repair of cardiovascular injury (Selzman, Whitehill, & others) 1998;65:868-74,CV

**Cartilage**

Cartilage folding method for main bronchial stapling (Aoki, Ozeki, & others) 1998;65:1800-1,HW

**Case reports**

Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR

Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998;65:1783-4,CR

Aneurysm of the left sinus of Valsalva producing aortic valve regurgitation and myocardial ischemia (Takahara, Sudo, & others) 1998;65:535-7,CR

Aortocoronary bypass grafting with expanded polytetrafluoroethylene: 12-year patency (McLarty, Phillips, & others) 1998;65:1442-4,CR

Btrial myxoma: a rare cardiac tumor (Peachell, Mullen, & others) 1998;65:1768-9,CR

Blunt cardiac rupture caused by zip gun backfire (Fulton, De Groot, & others) 1998;65:837-9,CR

Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR

Bronchial carcinoid tumor metastatic to the breast (Wozniak & Naunheim) 1998;65:1148-9,CR

Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465-7,CR

Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR

Combined coronary bypass and liver transplantation: technical considerations (Massad, Benedetti, & others) 1998;65:1130-2,CR

Combined heart and single-lung transplantation in complex congenital heart disease (Fann, Wilson, & others) 1998;65:823-5,CR

Combined TMR and mitral valve replacement via left thoracotomy (Hughes, Donovan, & others) 1998;65:1141-3,CR

Coronary artery aneurysm repaired with saphenous vein patch plasty (Moriyama, Hisatomi, & others) 1998;65:561-2,CR

Delayed presentation of traumatic parasternal lung hernia (Jacka & Luison) 1998;65:1150-1,CR

Division of the main pulmonary artery: suboptimal palliation for the patient with a univentricular heart (Wong & Beekman) 1998;65:1464-5,CR

Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR

Extended aortic arch atherectomy (Khaki, Ravichandran, & others) 1998;65:255-7,CR

Extubation of the patient after a difficult intubation (Kumar & Lazar) 1998;65:1778-80,CR

Four multiple primary malignant neoplasms of the aerodigestive tract (Keshishian, Sarkar, & others) 1998;65:252-4,CR

Fungal purulent constrictive pericarditis in a heart transplant patient (Canver, Patel, & others) 1998;65:1792-4,CR

Giant solitary fibrous tumor of the pleura (Khan, Rahman, & others) 1998;65:1461-4,CR

Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR

Histologic findings of transmyocardial laser channels after two hours (Lutter, Schwarzkopf, & others) 1998;65:1437-9,CR

Hybrid myocardial revascularization after previous left pneumonectomy (Soltanian, Sanders, & others) 1998;65:259-60,CR

Idiopathic saccular azygos vein aneurysm (Watanabe, Kusajima, & others) 1998;65:1459-61,CR

Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR

Inflammatory aneurysm of the ascending aorta (Künzli, von Segesser, & others) 1998;65:1132-3,CR

Intraaortic balloon pump after treatment of anomalous origin of left coronary artery (Pozzi, Santoro, & Makundan) 1998;65:555-7,CR

Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR

Large eventration of diaphragm in an elderly patient treated with emergency plication (Watanabe, Shimokawa, & others) 1998;65:1776-7,CR

The large window ductus: a surgical trap (Grünenfelder, Bartram, & others) 1998;65:1790-1,CR

A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR

Long-term cardiovascular consequences of undiagnosed intralobar pulmonary sequestration (Fabre, Porte, & others) 1998;65:1144-6,CR

Lung herniation secondary to minimally invasive direct coronary artery bypass grafting (Deeik, Memon, & Sugimoto) 1998;65:1772-4,CR

Lung transplantation for primary pulmonary hypertension and giant pulmonary artery aneurysm (Wekerle, Klepetko, & others) 1998;65:825-7,CR

Management of the atherosclerotic ascending aorta with endoaortic occlusion (Liddicoat, Doty, & Stuart) 1998;65:1133-5,CR

MIDCABG followed by a gastrointestinal operation in the same anesthetic setting (Zolfaghari & Pfister) 1998;65:1452-3,CR

Minimally invasive bilateral internal mammary artery bypass grafting (Gulielmos, Dangel, & Schüler) 1998;65:1774-6,CR

Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR

Mitral valve replacement associated with massive left atrial calcification (Santini, Peranzoni, & Mazzucco) 1998;65:1456-8,CR

Modified repair of mixed anomalous pulmonary venous connection (van Son, Hampsch, & Mohr) 1998;65:1441-2,CR

Mycotic aneurysm of the left coronary artery (Matsumoto, Konishi, & others) 1998;65:841-2,CR

Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

Needle embolus causing cardiac puncture and chronic constrictive pericarditis (LeMaire, Wall, & Mattox) 1998;65:1786-7,CR

Obstructive rhabdomyoma and univentricular physiology: a rare combination (Dyamenahalli, Black, & others) 1998;65:835-7,CR

One-stage repair of interrupted aortic arch and aortopulmonary window (Hata, Shiono, & others) 1998;65:829-31,CR

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

Parosteal osteosarcoma from a rib (Jatoi, Garcia-Moliner, & Daly) 1998;65:265-7,CR

Partial breast necrosis after MIDCABG via small anterolateral thoracotomy (Har-Shai, Ammar, & others) 1998;65:553-5,CR

A pedunculated intraluminal foregut reduplication cyst of the proximal esophagus (Craig, Wallace, & others) 1998;65:1777-8,CR

Percutaneous placement of tracheal T tube (Wood, Reynolds, & Vallières) 1998;65:557-8,CR

Postsegmentectomy pseudotumor of the lung (Grismar, Schaefer, & Read) 1998;65:243-5,CR

Preoperative identification and operative management of intraatrial extension of lung tumors (Heslin, Casper, & others) 1998;65:544-6,CR

**Case reports (cont'd)**

Primary malignant melanoma of the trachea (Duarte, Gal, & Mansour) 1998;65:559-60,CR

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR

Reconstruction of supravalvar aortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR

Repair of aortico-left ventricular tunnel originating from the left aortic sinus (Michielon, Sorbara, & Casarotto) 1998;65:1780-3,CR

Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis (Frank, Mavroudis, & others) 1998;65:1788-90,CR

Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuma, & others) 1998;65:241-3,CR

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR

Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR

Resection of a pulmonary malignancy invading the intrapericardial inferior vena cava (Roberts, Abbott, & others) 1998;65:263-5,CR

Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR

Reversal of renal failure and paraplegia after thoracoabdominal aneurysm repair (Widmann, DeLucia, & others) 1988;65:1153-5,CR

Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikesita) 1998;65:1766-8,CR

Right atrial metastatic melanoma in a patient with transient ischemic attacks (Prabhakar, Vasilakis, & others) 1998;65:844-6,CR

Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

Right ventricular infarction during left ventricular assist system support (McBride, Ruggiero, & others) 1998;65:839-41,CR

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR

Saphenous vein graft growth 13 years after coronary bypass in a child with Kawasaki disease (El-Khoury, Danilowicz, & others) 1998;65:1127-30,CR

Saphenous vein graft pseudoaneurysm rupture after coronary artery bypass grafting (Mohara, Konishi, & others) 1998;65:831-2,CR

Sequestration of the lung arising from the circumflex coronary artery (Temes, Talbot, & others) 1998;65:257-9,CR

Should we address the course as well as the origin of a translocated anomalous coronary artery? (Black, McCrindle, & Freedom) 1998;65:248-50,CR

Simultaneous total aortic replacement without a sternotomy incision (Shiiya, Yasuda, & others) 1998;65:546-8,CR

Stentless xenograft repair of the dissected aortic root (Westaby, Katsumata, & others) 1998;65:1448-50,CR

Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

Surgical management of tricuspid atresia and anomalous left brachiocephalic vein (Koutlas, Wernovsky, & others) 1998;65:1770-2,CR

Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR

Surgical treatment of lipomatous hypertrophy of the interatrial septum (Alcocer, Katz, & Hattler) 1998;65:1784-6,CR

Surgical treatment of the redundant interposed colon after retrosternal esophagoplasty (Bonavina, Chella, & others) 1998;65:1446-8,CR

Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR

Thoracoscopic transmyocardial laser revascularization (Horvath) 1998;65:1439-41,CR

Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR

Transmyocardial laser revascularization in allograft coronary artery disease (Frazier, Kadipasaoglu, & others) 1998;65:1138-41,CR

Transthoracic, transdiaphragmatic excision of simultaneous lung and adrenal lesions (Flores, Goldstein, & others) 1998;65:833-5,CR

Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998;65:540-2,CR

Tricuspid valve repair in a mountaineer (Marchbank, Parums, & Westaby) 1998;65:537-9,CR

Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR

Two-stage repair for aortic regurgitation with interrupted aortic arch (Ogino, Miki, & others) 1998;65:1151-3,CR

Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR

An unusual cause of hemoptysis (Urbat, Haapaniemi, & others) 1998;65:539-40,CR

Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

**Catheter ablation**

Radiofrequency and cryoablation of atrial fibrillation in patients undergoing valvular operations (Chen, Guo, & others) 1998;65:1666-72\*

**Catheterization**

Cuffed venous return cannulas in minimally invasive cardiac operations (Al-Ebrahim & El Shafei) 1998;65:1509,CP; Reply (Benetti) 1998;65:1509,CP

Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*

A feasible femoral cannulation method during cardiopulmonary bypass (Satta, Rimpiläinen, & others) 1998;65:1194,CP; Reply (Vander Salm) 1998;65:1194-5,CP

A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW

Transapical aortic cannulation in pediatric patients (Kapadia & Russo) 1998;65:888,CP; Reply (Watanabe) 1998;65:888-9,CP

**Catheterization, Swan-Ganz**

Removal of Swan-Ganz catheter via a small right anterior mediastinotomy (Duranni, Grignani, & Sim) 1998;65:1839,CP

**Cell adhesion molecules**

Are circulating adhesion molecules specifically changed in cardiac surgical patients? (Boldt, Kumle, & others) 1998;65:608-14\*

**Cerebral anoxia**

Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*

**Cerebral embolism and thrombosis**

Cerebral and systemic embolization during left ventricular support with the Novacor N100 device (Schmid, Weyand, & others) 1998;65:1703-10\*

Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*

**Cerebral ischemia, transient**

Right atrial metastatic melanoma in a patient with transient ischemic attacks (Prabhakar, Vasilakis, & others) 1998;65:844-6,CR

**Cerebrovascular disorders**

Posterior distribution of infarcts in strokes related to cardiac operations (Barbut, Grassineau, & others) 1998;65:1656-9\*

**Chemotherapy, adjuvant**

Neoadjuvant and adjuvant trials in non-small cell lung cancer (Einhorn) 1998;65:208-11\*

**Chest tubes**

Haemo-glyde coated chest drainage tubes (Kolvekar, Finch, & others) 1998;65:898-9,CP

**Child**

Activation of hemostasis during cardiopulmonary bypass and pediatric aprotinin dosage (Mössinger & Dietrich) 1998;65:S45-51\*

Artificial chordae for mitral valve reconstruction in children (Murakami, Yagihara, & others) 1998;65:1377-80\*

The Bayer 022 compassionate-use pediatric study (Coniff) 1998;65:S31-4\*

Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*

Central venous pressure lines in children undergoing heart operations (Nozar & Zuniga) 1998;65:603,CP

Endothelial-related coagulation in pediatric surgery (Boldt) 1998;65:S56-9\*

Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR

Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998;65:1105-9\*

Implantable cardioverter-defibrillators in children: a single-institutional experience (Wilson, Greer, & Grubb) 1998;65:775-8\*

Laceration of the external iliac artery with a pediatric intraoperative balloon catheter (Sogawa, Watanabe, & Hayashi) 1998;65:892,CP

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

Patterns and potential value of cardiac troponin I elevations after pediatric cardiac operations (Hirsch, Dent, & others) 1998;65:1394-9\*

Pharmacoconomics analysis in a pediatric population (D'Errico) 1998;65:S52-5\*

Pulmonary vascular resistance of children treated with nitrogen during early infancy (Hirsch, Dent, & others) 1998;65:1394-9\*

Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis (Frank, Mavroudis, & others) 1998;65:1788-90,CR

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

The Ross operation in children: 10-year experience (Elkins, Knott-Craig, & others) 1998;65:496-501\*

Saphenous vein graft growth 13 years after coronary bypass in a child with Kawasaki disease (El-Khoury, Danilowicz, & others) 1998;65:1127-30,CR

Transapical aortic cannulation in pediatric patients (Kapadia & Russo) 1998;65:888,CP; Reply (Watanabe) 1998;65:888-9,CP

Use of aprotinin in pediatric organ transplantation (Spray) 1998;65:S71-3\*

**Cholelithiasis**

Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465-7,CR

**Chondrosarcoma**

Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR

**Coin lesion, pulmonary**

Lung reduction operation and resection of pulmonary nodules in patients with severe emphysema (DeRose, Argenziano, & others) 1998;65:314-8\*

**Collagen**

Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

**Complement**

Complement activation and cytokine generation after modified Fontan procedure (Mainwaring, Lamberti, & Hugli) 1998;65:1715-20\*

Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*

Inflammatory mediators in adults undergoing cardiopulmonary bypass: comparison of centrifugal and roller pumps (Ashraf, Butler, & others) 1998;65:480-4\*

Monocyte tissue factor expression and ongoing complement generation in ventricular assist device patients (Wilhelm, Ristich, & others) 1998;65:1071-6\*

Reduction of the inflammatory response in patients undergoing minimally invasive coronary artery bypass grafting (Gu, Mariani, & others) 1998;65:420-4\*

Soluble complement receptor type I limits damage during revascularization of ischemic myocardium (Lazar, Hamasaki, & others) 1998;65:973-7\*

**Coronary aneurysm**

Coronary artery aneurysm repaired with saphenous vein patch plasty (Moriyama, Hisatomi, & others) 1998;65:561-2,CR

**Coronary angiography**

Thermal coronary angiography in CABG (Robicsek) 1998;65:303,CP; Reply (Mohr) 1998;65:303-4,CP

**Coronary artery bypass**

Angiographic follow-up of internal thoracic artery for free bypass grafting (Masuda, Matsuda, & others) 1998;65:731-4\*

**Coronary artery bypass (cont'd)**

- Aortocoronary bypass grafting with expanded polytetrafluoroethylene: 12-year patency (McLarty, Phillips, & others) 1998;65:1442-4,CR
- Atrial natriuretic peptide-induced release of cyclic guanosine monophosphate by coronary bypass grafts (Bonatti, Dichtl, & others) 1998;65:1621-4\*
- Axillary-coronary bypass (Coulson & Bakhshay) 1998;65:304,CP; Reply (Knight) 1998;65:304-5,CP
- Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*
- Combined coronary bypass and liver transplantation: technical considerations (Massad, Benedetti, & others) 1998;65:1130-2,CR
- Comprehensive multimodality blood conservation: 100 consecutive CABG operations without transfusion (Helm, Rosengart, & others) 1998;65:125-36\*
- Concomitant occlusive disease of the coronary arteries and great vessels (Takach, Reul, & others) 1998;65:78-84\*
- Coronary artery bypass grafting: three-day discharge (Gill) 1998;65:1834,CP; Reply (Ott) 1998;65:1834-5,CP
- A cost-effective retractor and heart stabilizer for minimal-access coronary bypass (Rousou, Engelman, & others) 1998;65:1479-80,HW
- Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*
- Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*
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Open-window thoracostomy and thoracomyoplasty to manage chronic pleural empyema (García-Yuste, Ramos, & others) 1998;65:818-22\*

Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffeler, Gugger, & others) 1998;65:319-23\*

**Endarterectomy**

Left anterior descending endarterectomy and internal thoracic artery bypass for diffuse coronary disease (Gill, Beanlands, & others) 1998;65:659-62\*

**Endocardial cushion defects**

Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR

**Endocarditis**

Conservative operation for infective endocarditis of the mitral valve (Lee, Shapiro, and Wells) 1998;65:1087-92\*

Operation for infective endocarditis: results after implantation of mechanical valves (Bauernschmitt, Jakob, & others) 1998;65:359-64\*

Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis (Frank, Mavroudis, & others) 1998;65:1788-90,CR

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR

**Endoscopy**

Endoscopic treatment of bronchopleural fistulas (Varoli, Roviaro, & others) 1998;65:807-9\*

Resection with curative intent after endoscopic treatment of airway obstruction (Daddi, Puma, & others) 1998;65:203-7\*

**Endothelium**

Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

Endothelial-related coagulation in pediatric surgery (Boldt) 1998;65:S56-9\*

Hypomagnesemia inhibits nitric oxide release from coronary endothelium: protective role of magnesium infusion after cardiac operations (Pearson, Evora, & others) 1998;65:967-72\*

### Enzymes

Levels of troponin I and cardiac enzymes after reinfusion of shed blood in coronary operations (De Paulis, Colagrande, & others) 1998;65:1617-20\*

### Epithelial cells

Epithelial cell hyperproliferation after biliopancreatic reflux into the esophagus of rats (Pera, Grande, & others) 1998;65:779-86\*

### Esophageal and gastric varices

Improvement in esophageal varices and liver histology post-operatively in Budd-Chiari syndrome (Kuniyoshi, Koja, & others) 1998;65:1711-4\*

### Esophageal atresia

Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR

### Esophageal cyst

A pedunculated intraluminal foregut reduplication cyst of the proximal esophagus (Craig, Wallace, & others) 1998;65:1777-8,CR

### Esophageal neoplasms

Esophageal carcinoma: depth of tumor invasion is predictive of regional lymph node status (Rice, Zuccaro, & others) 1998;65:787-92\*

Esophageal carcinoma: surgery without preoperative adjuvant chemotherapy (Mansour, Thourani, & Cooper) 1998;65:1492-3,UP

Multiple primary cancers in esophageal squamous cell carcinoma: incidence and implications (Poon, Law, & others) 1998;65:1529-34\*

Prognosis of adenocarcinoma arising in Barrett's esophagus (Hoff, Sawyers, & others) 1998;65:176-80\*

Trimodality therapy for esophageal cancer (Krasna) 1998;65:899-900,CP; Reply (Jones) 1998;65:900,CP

### Esophageal perforation

Esophageal perforation (Wetstein, Duerr, & Wagner) 1998;65:875-6,CR

The role of esophagectomy in the management of esophageal perforations (Altorkay, Kiss, & others) 1998;65:1433-5\*

### Esophagectomy

The role of esophagectomy in the management of esophageal perforations (Altorkay, Kiss, & others) 1998;65:1433-5\*

### Esophagoplasty

Surgical treatment of the redundant interposed colon after retrosternal esophagoplasty (Bonavina, Chella, & others) 1998;65:1446-8,CR

### Esophagus

Comparison of conventional and wire mesh expandable prostheses and surgical bypass in patients with malignant esophagorespiratory fistulas (Low & Kozarek) 1998;65:919-23\*

Epithelial cell hyperproliferation after biliopancreatic reflux into the esophagus of rats (Pera, Grande, & others) 1998;65:779-86\*

Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR

Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR

Terminalized semimechanical side-to-side suture technique for cervical esophagogastronomy (Collard, Romagnoli, & others) 1998;65:814-7\*

### Estrogens

The biology of estrogen-mediated repair of cardiovascular injury (Selzman, Whitehill, & others) 1998;65:868-74,CV

### Exchange transfusion, whole blood

Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR

### Extracorporeal membrane oxygenation

Extracorporeal membrane oxygenation support and cytokines (Kawahito, Misawa, & Fuse) 1998;65:1192-3,CP

Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius) 1998;65:877-8,UP

### Eye

Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR

### Fatty acids

Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*

Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*

Glucose and fatty acid oxidation by the *in situ* dog heart during experimental cooling and rewarming (Steigen, Tveita, & others) 1998;65:1235-40\*

### Femoral artery

A feasible femoral cannulation method during cardiopulmonary bypass (Satta, Rimpiläinen, & others) 1998;65:1194,CP; Reply (Vander Salm) 1998;65:1194-5,CP

A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW

### Fibrin tissue adhesive

Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1998;65:592-3,UP

### Fibrinolysis

Activation of coagulation and fibrinolysis during cardiothoracic operations (Hunt, Parratt, & others) 1998;65:712-8\*

### Fibroblast growth factor, basic

Therapeutic angiogenesis with basic fibroblast growth factor: technique and early results (Sellke, Laham, & others) 1998;65:1540-4\*

### Fistula

Comparison of conventional and wire mesh expandable prostheses and surgical bypass in patients with malignant esophagorespiratory fistulas (Low & Kozarek) 1998;65:919-23\*

Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92,CV

Endoscopic treatment of bronchopleural fistulas (Varoli, Roviaro, & others) 1998;65:807-9\*

Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

Video-assisted modified Abruzzini technique for bronchopleural fistula repair (Spaggiari, Carbognani, & others) 1998;65:1198-9,CP; Reply (Brutel de la Riviere, Knaepen, & van Swieten) 1998;65:1199-200,CP

### Flail chest

Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

**Fontan procedure**

Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR  
 Clinical results of the staged Fontan procedure in high-risk patients (Masuda, Kado, & others) 1998;65:1721-5\*  
 Complement activation and cytokine generation after modified Fontan procedure (Mainwaring, Lamberti, & Hugli) 1998;65:1715-20\*  
 Hemodynamic effects of human atrial natriuretic peptide after modified Fontan procedure (Hiramatsu, Imai, & others) 1998;65:761-4\*  
 One-lung Fontan operation: hemodynamics and surgical outcome (Zachary, Jacobs, & others) 1998;65:171-5\*

**Foundation report**

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**Fracture fixation, internal**

Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

**Gastroepiploic artery**

Minimally invasive coronary artery bypass grafting using the right gastroepiploic artery (Voutilainen, Verkkala, & others) 1998;65:444-8\*

**Gastrointestinal diseases**

MIDCABG followed by a gastrointestinal operation in the same anesthetic setting (Zolfaghari & Pfister) 1998;65:1452-3,CR

**Gene transfer**

Gene transfer into the donor heart during cold preservation for heart transplantation (Gojo, Niwaya, & others) 1998;65:647-52\*

**Giant lymph node hyperplasia**

Thoracic Castleman's disease: implications for resection (Pandya, Baumgartner, & others) 1998;65:302-3,CP; Reply (Kim) 1998;65:303,CP

**Glucose**

Glucose and fatty acid oxidation by the *in situ* dog heart during experimental cooling and rewarming (Steigen, Tveita, & others) 1998;65:1235-40\*

Hyperglycemia during normothermic cardiopulmonary bypass: the role of the kidney (Braden, Cheema-Dhadli, & others) 1998;65:1588-93\*

**Graft occlusion, vascular**

Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

**Guanosine monophosphate**

Atrial natriuretic peptide-induced release of cyclic guanosine monophosphate by coronary bypass grafts (Bonatti, Dichtl, & others) 1998;65:1621-4\*

Cardioprotection by activation of NO/cGMP pathway after cardioplegic arrest and 8-hour storage (Ali, Gandhi, & others) 1998;65:1303-9\*

**Hand**

Radial artery use in bypass grafting does not change digital blood flow or hand function (Dumanian, Segalman, & others) 1998;65:1284-7\*

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**Heart**

Needle embolus causing cardiac puncture and chronic constrictive pericarditis (LeMaire, Wall, & Mattox) 1998;65:1786-7,CR

**Heart arrest, induced**

Adenosine prevents  $K^+$ -induced  $Ca^{2+}$  loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586-91,CV

Aortic valve operations under deep hypothermic circulatory arrest for the porcelain aorta: "no-touch" technique (Byrne, Aranki, & Cohn) 1998;65:1313-5\*

Arrest duration influences postcardioplegia electrophysiologic recovery and reperfusion arrhythmias (Murrah, Ferguson, & others) 1998;65:1003-8\*

$\beta$ -blockade as an alternative to cardioplegic arrest during cardiopulmonary bypass (Warters, Allen, & others) 1998;65:961-6\*

Cardioprotection by activation of NO/cGMP pathway after cardioplegic arrest and 8-hour storage (Ali, Gandhi, & others) 1998;65:1303-9\*

Effect of pressure on myocardial function after 6-hour preservation with blood cardioplegia (Li, Sullivan, & others) 1998;65:115-24\*

Effects of an angiotensin II antagonist on ischemic and non-ischemic isolated rat hearts (Paz, Gurevitch, & others) 1998;65:474-9\*

Intermittent antegrade tepid versus cold blood cardioplegia in elective myocardial revascularization (Fiore, Swartz, & others) 1998;65:1559-65\*

Minimally diluted tepid blood cardioplegia (Hayashida, Isomura, & others) 1998;65:615-21\*

Myocardial distribution of antegrade cold crystalloid and tepid blood cardioplegia (Duarte, Shearer, & others) 1998;65:1610-6\*

Myocardial oxygenation during terminal warm blood cardioplegia (Kawasaji, Tomita, & others) 1998;65:1260-4\*

Neurologic sequelae associated with deep hypothermic circulatory arrest (Hickey) 1998;65:S65-70\*

Normothermic versus hypothermic hyperkalemic cardioplegia: effects on myocyte contractility (Houck, Kribbs, & others) 1998;65:1279-83\*

Port-Access coronary artery bypass grafting with the use of cardiopulmonary bypass and cardioplegic arrest (Reichenspurner, Gulielmos, & others) 1998;65:413-8\*

Prospective, randomized clinical study of ischemic preconditioning as an adjunct to intermittent cold blood cardioplegia (Illes & Swoyer) 1998;65:748-53\*

Rapid cooling contracture with cold cardioplegia (Zwart) 1998;65:891-2,CP

Retrograde coronary perfusion: effects on iatrogenic edema and diastolic properties (Dean, Jia, & others) 1998;65:449-53\*

Superior recovery of hypertrophied rat myocardium after cardioplegic arrest (Blank, Lahorra, & others) 1998;65:390-6\*

Temporal relation of ATP-sensitive potassium-channel activation and contractility before cardioplegia (Hebbar, Houck, & others) 1998;65:1077-82\*

Terminal warm blood cardioplegia improves cardiac function through microtubule repolymerization (Tenpaku, Onoda, & others) 1998;65:1580-7\*

Topical hypothermia: ineffective and deleterious as adjunct to cardioplegia for myocardial protection (Nikas, Ramadan, & Elefteriades) 1998;65:28-31\*

### Heart-assist devices

Cerebral and systemic embolization during left ventricular support with the Novacor N100 device (Schmid, Weyand, & others) 1998;65:1703-10\*

Conversion from routine cardiopulmonary bypass to centrifugal mechanical assist by transaortic inflow cannulation of the left ventricle (Kalangos, Murith, & others) 1998;65:1168-70,HW

Extracorporeal membrane oxygenation support and cytokines (Kawahito, Misawa, & Fuse) 1998;65:1192-3,CP

HeartMate left ventricular assist device as bridge to heart transplantation (Koul, Solem, & others) 1998;65:1625-30\*

Inflow valve regurgitation during left ventricular assist device support may interfere with reverse ventricular remodeling (Moazami, Argenziano, & others) 1998;65:628-31\*

LVAD power delivery: a percutaneous approach to avoid infection (Jarvik, Westaby, & others) 1998;65:470-3\*

Monocyte tissue factor expression and ongoing complement generation in ventricular assist device patients (Wilhelm, Ristich, & others) 1998;65:1071-6\*

Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius) 1998;65:877-8,UP

Randomized, double-blind trial of inhaled nitric oxide in LVAD recipients with pulmonary hypertension (Argenziano, Choudhri, & others) 1998;65:340-5\*

Right ventricular infarction during left ventricular assist system support (McBride, Ruggiero, & others) 1998;65:839-41,CR

Transition from cardiopulmonary bypass to the HeartMate left ventricular assist device (Tector, Kress, & others) 1998;65:643-6\*

### Heart atrium

Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998;65:1783-4,CR

Atrial flap anastomosis: an alternative technique for orthotopic heart transplantation (Döring & Marcsek) 1998;65:1163-4,HW

Atrial septal displacement for repair of anomalous pulmonary venous return into the right atrium (Hiramatsu, Takanashi, & others) 1998;65:1110-4\*

Batrial myxoma: a rare cardiac tumor (Peachell, Mullen, & others) 1998;65:1768-9,CR

Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*

Mitral valve replacement associated with massive left atrial calcification (Santini, Peranzoni, & Mazzucco) 1998;65:1456-8,CR

Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

Optimizing mitral valve exposure with conventional left atriotomy (McCarthy & Cosgrove) 1998;65:1161-2,HW

Preoperative identification and operative management of intraatrial extension of lung tumors (Heslin, Casper, & others) 1998;65:544-6,CR

Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikeshita) 1998;65:1766-8,CR

Right atrial metastatic melanoma in a patient with transient ischemic attacks (Prabhakar, Vasilakis, & others) 1998;65:844-6,CR

Surgical treatment of lipomatous hypertrophy of the interatrial septum (Alcocer, Katz, & Hattler) 1998;65:1784-6,CR

Telecommunications 330-801 lead extraction (Parsonnet) 1998;65:600-1,CP

Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*

### Heart bypass, right

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Superior hydrodynamics of a modified cavopulmonary connection for the Norwood operation (Sievers, Gerdes, & others) 1998;65:1741-5\*

### Heart catheterization

Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR

Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR

### Heart defects, congenital

Combined heart and single-lung transplantation in complex congenital heart disease (Fann, Wilson, & others) 1998;65:823-5,CR

Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hamsch, & Mohr) 1998;65:280-1,HW

Right-sided maze procedure for right atrial arrhythmias in congenital heart disease (Theodoro, Danielson, & others) 1998;65:149-53\*

Surgical anatomy of aorto-left ventricular tunnel (Ho, Muriago, & others) 1998;65:509-14\*

Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR

Trends in the management of tricuspid valve insufficiency (McElhinney, Reddy, & others) 1998;65:517-24\*

Tricuspid annuloplasty and ventricular plication for Ebstein's malformation (Vargas, Mengo, & others) 1998;65:1755-7\*

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### Heart hypertrophy

Superior recovery of hypertrophied rat myocardium after cardioplegic arrest (Blank, Lahorra, & others) 1998;65:390-6\*

### Heart injuries

Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

### Heart-lung transplantation

Combined heart and single-lung transplantation in complex congenital heart disease (Fann, Wilson, & others) 1998;65:823-5,CR

A mystery of Vladimir P. Demikhov: the 50th anniversary of the first intrathoracic transplantation (Konstantinov) 1998;65:1171-7,SH

### Heart neoplasms

Batrial myxoma: a rare cardiac tumor (Peachell, Mullen, & others) 1998;65:1768-9,CR

Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*

**Heart rupture**

Blunt cardiac rupture caused by zip gun backfire (Fulton, De Groot, & others) 1998;65:837-9,CR

Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

**Heart rupture, postinfarction**

Early repair of postinfarction ventricular septal rupture: infarct exclusion, septal stabilization, and left ventricular remodeling (de Boer & de Boer) 1998;65:853-4,HW

**Heart septal defects**

Long-term results after repair of complete atrioventricular septal defects: analysis of risk factors (Günther, Mazzitelli, & others) 1998;65:754-60\*

**Heart septal defects, atrial**

Granulocyte elastase release and pulmonary hemodynamics in patients with atrial septal defect (Gohra, Fujimura, & others) 1998;65:719-23\*

Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998;65:1105-9\*

Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR

Minimally invasive repair of atrial septal defects (Black & Freedom) 1998;65:765-7\*

Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikeshita) 1998;65:1766-8,CR

Transxiphoid approach without median sternotomy for the repair of atrial septal defects (Barbero-Marcial, Tanamati, & others) 1998;65:771-4\*

**Heart septal defects, ventricular**

Correlates of survival in patients with postinfarction ventricular septal defect (de Boer, Mariani, & de Boer) 1998;65:299,CP; Reply (Lowe & Gall) 1998;65:299-300,CP

Leaflet's free edge suspension for correction of aortic insufficiency associated with ventricular septal defect (Kalangos, Beghetti, & others) 1998;65:566-8,HW

Long-term follow-up in hypertrophic obstructive cardiomyopathy after septal myectomy (Schönbeck, Brunner-La Rocca, & others) 1998;65:1207-14\*

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Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

The surgical anatomy of the left ventricular outflow tract in hearts with ventricular septal defect and aortic arch obstruction (Shiokawa and Becker) 1998;65:1381-7\*

**Heart septum**

Aneurysm of sinus of Valsalva dissecting into interventricular septum (Choudhary, Bhan, & others) 1998;65:735-40\*

Atrial septal displacement for repair of anomalous pulmonary venous return into the right atrium (Hiramatsu, Takanashi, & others) 1998;65:1110-14\*

Surgical treatment of lipomatous hypertrophy of the interatrial septum (Alcocer, Katz, & Hattler) 1998;65:1784-6,CR

**Heart transplantation**

Apoptosis is involved in acute cardiac allograft rejection in rats (Kageyama, Li, & others) 1998;65:1604-9\*

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The CarboMedics valve: experience with 1,049 implants (Bernal, Rabasa, & others) 1998;65:137-43\*

Discrepancies between sizer and valve dimensions: implications for small aortic root (Bartels, Leyh, & others) 1998;65:1631-3\*

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Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*

Semicontinuous suture technique for all prosthetic valve insertions: the "hoist" technique (Ruchat, Hurni, & others) 1998;65:859-60,HW

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

**Heart valves**

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Radiofrequency and cryoablation of atrial fibrillation in patients undergoing valvular operations (Chen, Guo, & others) 1998;65:1666-72\*

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**Heart ventricle**

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

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Obstructive rhabdomyoma and univentricular physiology: a rare combination (Dyamenahalli, Black, & others) 1998;65:835-7,CR

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Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

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Suspension of straddling tricuspid valve chordae into the appropriate ventricle (van Son, Hampsch, & Mohr) 1998;65:850-2,HW

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**Hematocrit**

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**Hemodynamics**

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**Hemoptysis**

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**Hemorrhage**

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**Hepatic vein thrombosis**

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**Hepatic veins**

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**Hernia**

Delayed presentation of traumatic parasternal lung hernia (Jacka & Luison) 1998;65:1150-1,CR

Lung herniation secondary to minimally invasive direct coronary artery bypass grafting (Deeik, Memon, & Sugimoto) 1998;65:1772-4,CR

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**Histology**

Histologic findings of transmyocardial laser channels after two hours (Lutter, Schwarzkopf, & others) 1998;65:1437-9,CR

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**Hospital**

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### Hyperkalemia

Normothermic versus hypothermic hyperkalemic cardioplegia: effects on myocyte contractility (Houck, Kribbs, & others) 1998;65:1279-83\*

### Hypertension, pulmonary

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### Hypothermia, induced

Computer-controlled cardiopulmonary bypass increases jugular venous oxygen saturation during rewarming (Mutch, Lefevre, & others) 1998;65:59-65\*

Effects of oncotic pressure and hematocrit on outcome after hypothermic circulatory arrest (Shin'oka, Shum-Tim, & others) 1998;65:155-64\*

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### Iliac artery

Laceration of the external iliac artery with a pediatric intraoperative balloon catheter (Sogawa, Watanabe, & Hayashi) 1998;65:892,CP

### Immunocompromised host

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### Industry

The surgical meeting as infomercial (Cohn) 1998;65:1833,CP

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### Infant

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*

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### Infant, newborn

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### Infection

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**Infection (cont'd)**

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**Inflammation**

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**Interleukin-10**

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**Invited presentation**

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**Irrigation**

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**Ischemia**

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**Kidney failure, acute**

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**Kidney transplantation**

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**Laser surgery**

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**Leukocytes**

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**Lidocaine**

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**Lipids**

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**Liver**

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**Liver transplantation**

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**Losartan**

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**Lung**

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**Platelet and neutrophil activation during cardiac surgical procedures: impact of cardiopulmonary bypass (Morse, Adams, & Magnani) 1998;65:691-5\***

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**Pleural neoplasms**  
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**Morphologic grading of the emphysematous lung and its relation to improvement after lung volume reduction surgery (Wisser, Klepetko, & others) 1998;65:793-9\***

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Endoscopic treatment of bronchopleural fistulas (Varoli, Roviaro, & others) 1998;65:807-9\*

**Polytetrafluoroethylene**  
Aortocoronary bypass grafting with expanded polytetrafluoroethylene: 12-year patency (McLarty, Phillips, & others) 1998;65:1442-4,CR

Artificial chordae for mitral valve reconstruction in children (Murakami, Yagihara, & others) 1998;65:1377-80\*

Experimental study of a new porous tracheal prosthesis (Guíjarro Jorge, Cantó, & others) 1998;65:1830-1,UP

Side-to-side aorto-Gore-Tex central shunt (Gates, Laks, & Johnson) 1998;65:515-6\*

**Postoperative complications**  
Autoblood plus OK432 pleurodesis with open drainage for persistent air leak after lobectomy (Yokomise, Satoh, & others) 1998;65:563-5,HW

Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*

Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*

Effects of depletion of leukocytes and platelets on cardiac dysfunction after cardiopulmonary bypass (Chiba, Morio, & others) 1998;65:107-13\*

Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR

Infectious mediastinitis after cardiac operations: computed tomographic findings (Misawa, Fuse, & Hasegawa) 1998;65:622-4\*

A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR

Mediastinitis after cardiovascular operations: a case-control study of risk factors (Bitkover & Gårdlund) 1998;65:36-40\*

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sîrbu, Herse, & others) 1998;65:548-50,CR

Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuma, & others) 1998;65:241-3,CR

Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

Saphenous vein graft pseudoaneurysm rupture after coronary artery bypass grafting (Mohara, Konishi, & others) 1998;65:831-2,CR

Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*

Treatment of mediastinitis: early modified Robicsek closure and pectoralis major advancement flaps (El Gamel, Yonan, & others) 1998;65:41-7\*

**Postoperative hemorrhage**  
Aprotinin and dipyridamole for safe reduction of postoperative blood loss (Cohen, Ivanov, & others) 1998;65:674-83\*

Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*

Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*

Negative reexploration for cardiac postoperative bleeding: can it be therapeutic? (Pelletier, Solymoss, & others) 1998;65:999-1002\*

The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

Prophylactic tranexamic acid and  $\epsilon$ -aminocaproic acid for primary myocardial revascularization (Hardy, Bélisle, & others) 1998;65:371-6\*

**Postoperative period**  
Hypomagnesemia inhibits nitric oxide release from coronary endothelium: protective role of magnesium infusion after cardiac operations (Pearson, Evora, & others) 1998;65:967-72\*

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

**Potassium**  
Adenosine prevents  $K^+$ -induced  $Ca^{2+}$  loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586-91,CV

Normothermic versus hypothermic hyperkalemic cardioplegia: effects on myocyte contractility (Houck, Kribbs, & others) 1998;65:1279-83\*

**Potassium channels**  
Temporal relation of ATP-sensitive potassium-channel activation and contractility before cardioplegia (Hebbar, Houck, & others) 1998;65:1077-82\*

**Preconditioning, myocardial**  
Calcium preconditioning in human myocardium (Cain, Meldrum, & others) 1998;65:1065-70\*

Prospective, randomized clinical study of ischemic preconditioning as an adjunct to intermittent cold blood cardioplegia (Illes & Swoyer) 1998;65:748-53\*

**Pregnancy**  
Aortic dissection during pregnancy (Cheng) 1998;65:1511-2,CP; Reply (Zeebregts & Schepens) 1998;65:1512,CP

**Presidential address**  
It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA

Paranoia or reality? (Kaiser) 1998;65:1201-6,PA

**President's page**  
Change (Kaiser) 1998;65:7,PA

**Pressure**  
Effect of pressure on myocardial function after 6-hour preservation with blood cardioplegia (Li, Sullivan, & others) 1998;65:115-24\*

Effects of oncotic pressure and hematocrit on outcome after hypothermic circulatory arrest (Shin'oka, Shum-Tim, & others) 1998;65:155-64\*

**Prostheses and implants**  
Comparison of conventional and wire mesh expandable prostheses and surgical bypass in patients with malignant esophagorespiratory fistulas (Low & Kozarek) 1998;65:919-23\*

Experimental study of a new porous tracheal prosthesis (Guíjarro Jorge, Cantó, & others) 1998;65:1830-1,UP

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR

Semicontinuous suture technique for all prosthetic valve insertions: the "hoist" technique (Ruchat, Hurni, & others) 1998;65:859-60,HW

**Protein kinase C**  
Postischemic function and protein kinase C signal transduction (Rohs, Kilgore, & others) 1998;65:1680-4\*

**Protein-losing enteropathies**

Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR

**Proteins**

Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*

Significance of serum S100 release after coronary artery bypass grafting (Jönsson, Johnsson, & others) 1998;65:1639-44\*

**Pulmonary artery**

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Direct reconstruction of the pulmonary artery during the arterial switch operation: an interesting surgical option with excellent hemodynamic results (Carrel, Mattila, & others) 1998;65:1115-9\*

Division of the main pulmonary artery: suboptimal palliation for the patient with a univentricular heart (Wong & Beekman) 1998;65:1464-5,CR

Granulocyte elastase release and pulmonary hemodynamics in patients with atrial septal defect (Gohra, Fujimura, & others) 1998;65:719-23\*

Left pulmonary artery kinking caused by outflow tract dilatation after transannular patch repair of tetralogy of Fallot (McElhinney, Parry, & others) 1998;65:1120-6\*

Lung transplantation for primary pulmonary hypertension and giant pulmonary artery aneurysm (Wekerle, Klepetko, & others) 1998;65:825-7,CR

One-lung Fontan operation: hemodynamics and surgical outcome (Zachary, Jacobs, & others) 1998;65:171-5\*

One-stage repair of interrupted aortic arch and aortopulmonary window (Hata, Shiono, & others) 1998;65:829-31,CR

Reconstruction of supravalvar aortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR

Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998;65:768-70\*

Surgical removal of Electronics pacing wire from the right pulmonary artery (Oswal, Hayat, & Kay) 1998;65:1192,CP

Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR

Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*

Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR

**Pulmonary circulation**

Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR

Superior hydrodynamics of a modified cavopulmonary connection for the Norwood operation (Sievers, Gerdes, & others) 1998;65:1741-5\*

Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR

**Pulmonary emphysema**

Bilateral lung volume reduction surgery via median sternotomy for severe pulmonary emphysema (Date, Goto, & others) 1998;65:939-42\*

Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

Lung reduction operation and resection of pulmonary nodules in patients with severe emphysema (DeRose, Argenziano, & others) 1998;65:314-8\*

Morphologic grading of the emphysematous lung and its relation to improvement after lung volume reduction surgery (Wisser, Klepetko, & others) 1998;65:793-9\*

**Pulmonary valve**

Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

Pulmonary root replacement with the Freestyle stentless aortic xenograft in growing pigs (Schoof, Hazekamp, & others) 1998;65:1726-9\*

Pulmonary valve replacement: a role for mechanical prostheses? (Rosti, Murzi, & others) 1998;65:889-90,CP; Reply (Williams) 1998;65:890,CP

**Pulmonary veins**

Atrial septal displacement for repair of anomalous pulmonary venous return into the right atrium (Hiramatsu, Takanashi, & others) 1998;65:1110-4\*

Modified repair of mixed anomalous pulmonary venous connection (van Son, Hamsch, & Mohr) 1998;65:1441-2,CR

Modified superior approach for repair of supracardiac and mixed total anomalous pulmonary venous drainage (Seraf, Belli, & others) 1998;65:1391-3\*

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sîrbu, Herse, & others) 1998;65:548-50,CR

An unusual type of total anomalous pulmonary venous connection (Lobdell, Walters, & Hakimi) 1998;65:598,CP

**Pyelonephritis, xanthogranulomatous**

An unusual cause of hemoptysis (Urbat, Haapaniemi, & others) 1998;65:539-40,CR

**Radial artery**

Easy harvesting of radial artery with ultrasonically activated scalpel (Posacioglu, Atay, & others) 1998;65:984-5\*

Radial artery use in bypass grafting does not change digital blood flow or hand function (Dumanian, Segalman, & others) 1998;65:1284-7\*

Simplified method for candidate selection for radial artery harvesting (Johnson, Cromartie, & others) 1998;65:1167,HW

**Radiation injuries**

Surgical management of radiation-induced heart disease (Veeragandham & Goldin) 1998;65:1014-9\*

**Radionuclide imaging**

Intraoperative gamma probe-directed biopsy of asymptomatic suspected bone metastases (Robinson, Preksto, & others) 1998;65:1426-32\*

**Radiotherapy**

Neoadjuvant and adjuvant trials in non-small cell lung cancer (Einhorn) 1998;65:208-11\*

**Receptors, complement**

Soluble complement receptor type I limits damage during revascularization of ischemic myocardium (Lazar, Hamasaki, & others) 1998;65:973-7\*

**Receptors, thrombin**

The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

**Reoperation**

Heart retransplantation: a 23-year single-center clinical experience (Schnetzler, Pavie, & others) 1998;65:978-83\*

Late results and reintervention after aortic valvotomy for critical aortic stenosis in neonates and infants (Hawkins, Minich, & others) 1998;65:1758-63\*

Long-term results after repeated surgical removal of pulmonary metastases (Kandioler, Krömer, & others) 1998;65:909-12\*

Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*

Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*

Risk of reoperative valve replacement for failed mitral and aortic bioprostheses (Akins, Buckley, & others) 1998;65:1545-52\*

Should angiographically disease-free saphenous vein grafts be replaced at the time of redo coronary artery bypass grafting? (Mehta, Weinberg, & others) 1998;65:17-23\*

Thoracoscopic operations on reoperated chests (Yim, Liu, & others) 1998;65:328-30\*

**Reperfusion**

Arrest duration influences postcardioplegia electrophysiologic recovery and reperfusion arrhythmias (Murrah, Ferguson, & others) 1998;65:1003-8\*

Controlled reperfusion protects lung grafts during a transient early increase in permeability (Bhabra, Hopkinson, & others) 1998;65:187-97\*

Retrograde infusion of lidocaine or L-arginine before reperfusion reduces myocardial infarct size (Lee, Nitta, & others) 1998;65:1353-9\*

**Reperfusion injury**

Cardioprotection by local heating: improved myocardial salvage after ischemia and reperfusion (Gowda, Yang, & others) 1998;65:1241-7\*

Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*

Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*

Increased myocardial tumor necrosis factor- $\alpha$  in a crystalloid-perfused model of cardiac ischemia-reperfusion injury (Meldrum, Cleveland, & others) 1998;65:439-43\*

Microvascular permeability of the non-heart-beating rabbit lung after warm ischemia and reperfusion: role of neutrophil elastase (Kishima, Takeda, & others) 1998;65:913-8\*

Myocardial oxygenation during terminal warm blood cardioplegia (Kawasaji, Tomita, & others) 1998;65:1260-4\*

The role of platelet-activating factor in regional myocardial ischemia-reperfusion injury (Qayumi, English, & others) 1998;65:1690-7\*

**Reports**

1995 coronary artery bypass risk model: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Grover, & Edwards) 1998;65:879-84,RE

1997 meeting, Southern Thoracic Surgical Association (Pennington) 1998;65:606,RE

Report on "Understanding the New World of Health Care" 1998;65:1832,RE

Thirty-fourth annual meeting of The Society of Thoracic Surgeons (Pairolero) 1998;65:1498-507,RE

The Thoracic Surgery Foundation for Research and Education 1998;65:885,RE; 1998;65:1190,RE

Updates to the data quality review program: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Edwards, & Grover) 1998;65:1494-7,RE

**Respiratory distress syndrome, adult**

Nitric oxide potentiates acute lung injury in an isolated rabbit lung model (Rayhrer, Edmisten, & others) 1998;65:935-8\*

**Respiratory insufficiency**

Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR

**Respiratory paralysis**

Ultrasound detection of diaphragmatic paralysis after cardiac operations (Yahagi, Watanabe, & Kumon) 1998;65:1841,CP

**Retinal artery**

Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR

**Rhabdomyoma**

Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*

Obstructive rhabdomyoma and univentricular physiology: a rare combination (Dyamenahalli, Black, & others) 1998;65:835-7,CR

**Rheumatic heart disease**

Is atrial fibrillation resulting from rheumatic mitral valve disease a proper indication for the maze procedure? (Fukada, Morishita, & others) 1998;65:1566-70\*

**Rib fractures**

Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

**Ribs**

Parosteal osteosarcoma from a rib (Jatoi, Garcia-Moliner, & Daly) 1998;65:265-7,CR

**Risk factors**

Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*

Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

Long-term results after repair of complete atrioventricular septal defects: analysis of risk factors (Günther, Mazzitelli, & others) 1998;65:754-60\*

Mediastinitis after cardiovascular operations: a case-control study of risk factors (Bitkover & Gårdlund) 1998;65:36-40\*

1995 coronary artery bypass risk model: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Grover, & Edwards) 1998;65:879-84,RE

Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*

Risk factors for death after heart transplantation: does a single-center experience correlate with multicenter registries? (McCarthy, McCarthy, & others) 1998;65:1574-9\*

**Ross procedure**

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR

The Ross operation in children: 10-year experience (Elkins, Knott-Craig, & others) 1998;65:496-501\*

The Ross procedure: shorter hospital stay, decreased morbidity, and cost effective (Jaggers, Harrison, & others) 1998;65:1553-8\*

**Safety**

The safety of cardiac operations in the liver transplant recipient (Prabhakar, Testa, & others) 1998;65:1060-4\*

**Safety management**

Accidental hyperperfusion during cardiopulmonary bypass: suggested safety features (Tempe & Khanna) 1998;65:306,CP

**Saphenous vein**

Coronary artery aneurysm repaired with saphenous vein patch plasty (Moriyama, Hisatomi, & others) 1998;65:561-2,CR

Early injury to the media after saphenous vein grafting (O'Brien, Ormont, & others) 1998;65:1273-8\*

Expression of vascular adhesion molecules in saphenous vein coronary bypass grafts (Chester, Morrison, & Yacoub) 1998;65:1685-9\*

Hypoxia increases vasodilator release from internal mammary artery and saphenous vein grafts (Pearson, Evora, & others) 1998;65:1220-5\*

Method for creation of the aortotomy site for saphenous vein grafts (Alexander, Votapka, & others) 1998;65:861-2,HW

Modified minimally invasive technique for greater saphenous vein harvesting (Slaughter, Gerchar, & Pappas) 1998;65:571-2,HW

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR

Saphenous vein graft growth 13 years after coronary bypass in a child with Kawasaki disease (El-Khoury, Danilowicz, & others) 1998;65:1127-30,CR

Saphenous vein graft pseudoaneurysm rupture after coronary artery bypass grafting (Mohara, Konishi, & others) 1998;65:831-2,CR

Should angiographically disease-free saphenous vein grafts be replaced at the time of redo coronary artery bypass grafting? (Mehta, Weinberg, & others) 1998;65:17-23\*

Value of reversed saphenous vein in minimally invasive direct coronary artery bypass graft procedures (Machiraju, Culig, & others) 1998;65:625-7\*

**Sepsis syndrome**

Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*

Inflammatory mediators in adults undergoing cardiopulmonary bypass: (Ashraf, Butler, & others) 1998;65:480-4\*

"Low SVR syndrome" or SIRS after cardiac operations? (Myles & Davis) 1998;65:298,CP

Reduction of the inflammatory response in patients undergoing minimally invasive coronary artery bypass grafting (Gu, Mariani, & others) 1998;65:420-4\*

**Sex characteristics**

The role of gender in heart transplantation (Prendergast, Furukawa, & others) 1998;65:88-94\*

**Shunt**

Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*

Intraluminal shunting for coronary bypass (Wallsh) 1998;65:1191,CP; Reply (Rivetti) 1998;65:1191-2,CP

Side-to-side aorto-Gore-Tex central shunt (Gates, Laks, & Johnson) 1998;65:515-6\*

Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR

**Sinus of Valsalva**

Aneurysm of sinus of Valsalva dissecting into interventricular septum (Choudhary, Bhan, & others) 1998;65:735-40\*

Aneurysm of the left sinus of Valsalva producing aortic valve regurgitation and myocardial ischemia (Takahara, Sudo, & others) 1998;65:535-7,CR

Repair of aortico-left ventricular tunnel originating from the left aortic sinus (Michielon, Sorbara, & Casarotto) 1998;65:1780-3,CR

Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR

**Skeletonization**

Effect of skeletonizing dissection on the internal thoracic artery (Sasajima, Wu, & others) 1998;65:1009-13\*

Is semiskeletonization of internal thoracic artery another new harvest technique? (Choi, Yang, & Lee) 1998;65:896-7,CP

**The Society of Thoracic Surgeons**

Change (Kaiser) 1998;65:1,PA

First annual meeting of The Society of Thoracic Surgeons on the Web (Kaiser) 1998;65:1508,CN

1995 coronary artery bypass risk model: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Grover, & Edwards) 1998;65:879-84,RE

Thirty-fourth annual meeting (Pairolero) 1998;65:1498-507,RE

Updates to the data quality review program: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Edwards, & Grover) 1998;65:1494-7,RE

**Southern Thoracic Surgical Association**

1997 meeting, Southern Thoracic Surgical Association (Pemberton) 1998;65:606,RE

It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA

**Special presentations**

The Medicare program and thoracic surgery: crisis or opportunity? (Gardner) 1998;65:905-8\*

Recent developments and evolving techniques of mitral valve reconstruction (Spencer, Galloway, & others) 1998;65:307-13\*

**Special report**

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

**Spinal cord**

The role of spinal angiography in operations on the thoracic aorta: myth or reality? (Heinemann, Brassel, & others) 1998;65:346-51\*

**Spine**

Hemivertebral resection for apical chest tumors: is the risk justified by the outcome? (Spaggiari, Rusca, & others) 1998;65:1515-6,CP; Reply (Grunenwald) 1998;65:1516-7,CP

Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR

**Splanchnic nerves**

Thoracoscopic splanchnicectomy for control of intractable pain in pancreatic cancer (Le Pimpec Barthes, Chapuis, & others) 1998;65:810-3\*

**Stents**

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

Pulmonary root replacement with the Freestyle stentless aortic xenograft in growing pigs (Schoof, Hazekamp, & others) 1998;65:1726-9\*

Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuma, & others) 1998;65:241-3,CR

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

**Sternotomy**

Bilateral lung volume reduction surgery via median sternotomy for severe pulmonary emphysema (Date, Goto, & others) 1998;65:939-42\*

Biomechanical study of sternal closure using rigid fixation techniques in human cadavers (Ozaki, Buchman, & others) 1998;65:1660-5\*

Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*

Facile minimally invasive cardiac surgery via ministernotomy (Gundry, Shattuck, & others) 1998;65:1100-4\*

Full-spectrum cardiac surgery through a minimal incision: mini-sternotomy (lower half) technique (Doty, RiRusso, & Doty) 1998;65:573-7,HW

Limited lower sternotomy for minimally invasive mitral valve replacement (Nair & Sharpe) 1998;65:273-4,HW

Minimally invasive aortic valve replacement via partial sternotomy (Tam & Almeida) 1998;65:275-6,HW

Minimally invasive reversed Z sternotomy for aortic valve replacement (Nair & Sharpe) 1998;65:1165-6,HW

Prospective trial of catheter irrigation and muscle flaps for sternal wound infection (Rand, Cochran, & other) 1998;65:1046-9\*

Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW

Simultaneous total aortic replacement without a sternotomy incision (Shiiya, Yasuda, & others) 1998;65:546-8,CR

Transxiphoid approach without median sternotomy for the repair of atrial septal defects (Barbero-Marcial, Tanamati, & others) 1998;65:771-4\*

**Sternum**

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

Retrosternal fat pad for prevention of suppurative sternitis (Kapadia & Russo) 1998;65:601,CP; Reply (Paterson) 1998;65:601,CP

Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW

**Stroke volume**

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

**Subclavian artery**

Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*

Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*

**Superior vena cava syndrome**

Homograft and SVC syndrome (Oyarzun & McCormick) 1998;65:1836-7,CP; Reply (Ohri & Townsend) 1998;65:1837,CP

**Surgical flaps**

Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*

Prospective trial of catheter irrigation and muscle flaps for sternal wound infection (Rand, Cochran, & other) 1998;65:1046-9\*

Treatment of mediastinitis: early modified Robicsek closure and pectoralis major advancement flaps (El Gamel, Yonan, & others) 1988;65:41-7\*

**Surgical instruments**

Clamp for coronary artery operations (Walia & Kole) 1998;65:1475-6,HW

A cost-effective retractor and heart stabilizer for minimal-access coronary bypass (Rousou, Engelman, & others) 1998;65:1479-80,HW

Cuffed venous return cannulas in minimally invasive cardiac operations (Al-Ebrahim & El Shafei) 1998;65:1509,CP; Reply (Benetti) 1998;65:1509,CP

Easy harvesting of radial artery with ultrasonically activated scalpel (Posacioglu, Atay, & others) 1998;65:984-5\*

Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW

Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998;65:1802-4,HW

**Surgical procedures, minimally invasive**

Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*

Clinical experience with thoracoscopic TMR versus minimally invasive approach (Vincent) 1998;65:599-600,CP; Reply (deGuzman & Cohn) 1998;65:600,CP

A cost-effective retractor and heart stabilizer for minimal-access coronary bypass (Rousou, Engelman, & others) 1998;65:1479-80,HW

Cuffed venous return cannulas in minimally invasive cardiac operations (Al-Ebrahim & El Shafei) 1998;65:1509,CP; Reply (Benetti) 1998;65:1509,CP

Facile minimally invasive cardiac surgery via ministernotomy (Gundry, Shattuck, & others) 1998;65:1100-4\*

Full-spectrum cardiac surgery through a minimal incision: mini-sternotomy (lower half) technique (Doty, RiRusso, & Doty) 1998;65:573-7,HW

Limited lower sternotomy for minimally invasive mitral valve replacement (Nair & Sharpe) 1998;65:273-4,HW

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Minimal access surgical techniques in coronary artery bypass grafting for triple-vessel disease (Lin, Chang, & others) 1998;65:407-12\*

Minimally invasive aortic valve replacement via partial sternotomy (Tam & Almeida) 1998;65:275-6,HW

Minimally invasive axillary-coronary artery bypass (Moriishi, Shiiku, & Abe) 1998;65:1196-7,CP; Reply (Knight) 1998;65:1197,CP

Minimally invasive axillary-coronary artery bypass (Sakakibara) 1998;65:1197,CP; Reply (Knight) 1998;65:1197,CP

Minimally invasive bilateral internal mammary artery bypass grafting (Gulielmos, Dangel, & Schüller) 1998;65:1774-6,CR

Minimally invasive cardiac surgical techniques in the closure of ventricular septal defect: an alternative approach (Lin, Chang, & others) 1998;65:165-9\*

**Surgical procedures, minimally invasive (cont'd)**

- Minimally invasive coronary artery bypass (Pfister & Resano) 1998;65:1195,CP; Reply (Ancalmo & Busby) 1998;65:1195,CP
- Minimally invasive coronary artery bypass grafting using the right gastroepiploic artery (Voutilainen, Verkkala, & others) 1998;65:444-8\*
- Minimally invasive coronary artery bypass grafting: what is the best approach? (Krause) 1998;65:1196,CP; Reply (Ancalmo & Busby) 1998;65:1196,CP
- Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR
- Minimally invasive mitral operations (Konertz) 1998;65:1509-10,CP; Reply (Arom & Emery) 1998;65:1510,CP
- Minimally invasive repair of atrial septal defects (Black & Freedom) 1998;65:765-7\*
- Minimally invasive reversed Z sternotomy for aortic valve replacement (Nair & Sharpe) 1998;65:1165-6,HW
- Minimally invasive surgical technique for the treatment of multivessel coronary artery disease (Gulielmos, Knaut, & others) 1998;65:1331-4\*
- Minimally invasive valve operations (Cosgrove, Sabik, & Navia) 1998;65:1535-9\*
- Modified minimally invasive technique for greater saphenous vein harvesting (Slaughter, Gerchar, & Pappas) 1998;65:571-2,HW
- One-day admission for lung lobectomy: an incidental result of a clinical pathway (Tovar, Roethe, & others) 1998;65:803-6\*
- Reduction of the inflammatory response in patients undergoing minimally invasive coronary artery bypass grafting (Gu, Mariani, & others) 1998;65:420-4\*
- Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW
- Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW
- Value of reversed saphenous vein in minimally invasive direct coronary artery bypass graft procedures (Machiraju, Culig, & others) 1998;65:625-7\*

**Surgical stapling**

- Fissureless lobectomy (Temes, Willms, & others) 1998;65:282-4,HW

**Suture techniques**

- Semicontinuous suture technique for all prosthetic valve insertions: the "hoist" technique (Ruchat, Hurni, & others) 1998;65:859-60,HW

**Sutures**

- Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*
- Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*

**Tachycardia, supraventricular**

- Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*

**Takayasu's arteritis**

- Inflammatory aneurysm or Takayasu's disease? (Burke & Virmani) 1998;65:1835,CP; Reply (Girardi & Coselli) 1998;65:1835-6,CP

**Temperature**

- Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*

**Tetralogy of Fallot**

- Left pulmonary artery kinking caused by outflow tract dilatation after transannular patch repair of tetralogy of Fallot (McElhinney, Parry, & others) 1998;65:1120-6\*

**Thermography**

- Thermal coronary angiography in CABG (Robicsek) 1998;65:303,CP; Reply (Mohr) 1998;65:303-4,CP

**Thoracic arteries**

- Angiographic follow-up of internal thoracic artery for free bypass grafting (Masuda, Matsuda, & others) 1998;65:731-4\*

- Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*

- Effect of skeletonizing dissection on the internal thoracic artery (Sasajima, Wu, & others) 1998;65:1009-13\*

- Is semiskeletonization of internal thoracic artery another new harvest technique? (Choi, Yang, & Lee) 1998;65:896-7,CP

- Left anterior descending endarterectomy and internal thoracic artery bypass for diffuse coronary disease (Gill, Beanlands, & others) 1998;65:659-62\*

- Midterm results of free internal thoracic artery grafting for myocardial revascularization (Tashiro, Nakamura, & others) 1998;65:951-4\*

**Thoracic surgery**

- Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*

- Activation of coagulation and fibrinolysis during cardiothoracic operations (Hunt, Parratt, & others) 1998;65:712-8\*

- Aprotinin enhances the endogenous release of interleukin-10 after cardiac operations (Hill, Diego, & others) 1998;65:66-9\*

- Are circulating adhesion molecules specifically changed in cardiac surgical patients? (Boldt, Kumle, & others) 1998;65:608-14\*

- The birth of intracardiac surgery: a semicentennial tribute (June 10, 1948-1998) (Dávila) 1998;65:1809-20,SH

- Cantrell's syndrome: a challenge to the surgeon (Vazquez-Jimenez, Muehler, & others) 1998;65:1178-85,CV

- Cardiac operations in patients with cirrhosis (Klemperer, Ko, & others) 1998;65:85-7\*

- Central venous pressure lines in children undergoing heart operations (Nozar & Zuniga) 1998;65:603,CP

- Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*

- Effect of nitric oxide gas on platelets during open heart operations (Mellgren, Mellgren, & others) 1998;65:1335-41\*

- Effect of pressure on myocardial function after 6-hour preservation with blood cardioplegia (Li, Sullivan, & others) 1998;65:115-24\*

- Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1998;65:592-3,UP

- Full-spectrum cardiac surgery through a minimal incision: mini-sternotomy (lower half) technique (Doty, RiRusso, & Doty) 1998;65:573-7,HW

- Globalization (Replogle) 1998;65:901-2,ED

An inexpensive method of heart stabilization during coronary artery operations without cardiopulmonary bypass (Lucchetti & Angelini) 1998;65:1477-8,HW

Influence of high- and low-dose aprotinin on activation of hemostasis in open heart operations (Dietrich, Schöpf, & others) 1998;65:70-6\*

International aspects of cardiac surgery (Pezzella) 1998;65:903-4,ED

Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*

Intravenous diltiazem and acute renal failure after cardiac operations (Young, Diab, & Kirsh) 1998;65:1316-9\*

It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA

Leaflet's free edge suspension for correction of aortic insufficiency associated with ventricular septal defect (Kalangos, Beghetti, & others) 1998;65:566-8,HW

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"Low SVR syndrome" or SIRS after cardiac operations? (Myles & Davis) 1998;65:298,CP

The Medicare program and thoracic surgery: crisis or opportunity? (Gardner) 1998;65:905-8\*

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Open heart operations after renal transplantation (Tireli, Korkut, & others) 1998;65:596,CP

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Platelet and neutrophil activation during cardiac surgical procedures: impact of cardiopulmonary bypass (Morse, Adams, & Magnani) 1998;65:691-5\*

Posterior distribution of infarcts in strokes related to cardiac operations (Barbut, Grassineau, & others) 1998;65:1656-9\*

Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR

Retooling thoracic surgery education for the 21st century (Baumgartner) 1998;65:13-6\*

The safety of cardiac operations in the liver transplant recipient (Prabhakar, Testa, & others) 1998;65:1060-4\*

Shed mediastinal blood transfusion after cardiac operations: a cost-effectiveness analysis (Kilgore & Pacifico) 1998;65:1248-54\*

Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998;65:768-70\*

Total simultaneous repair of coarctation and intracardiac pathology in adult patients (Morris, Samuels, & Brockman) 1998;65:1698-702\*

Tracheobronchial laceration after double-lumen intubation for thoracic procedures (Spaggiari, Rusca, & others) 1998;65:1837-8,CP; Reply (Massard, Hentz, & Wihl) 1998;65:1838-9,CP

Transthoracic, transdiaphragmatic excision of simultaneous lung and adrenal lesions (Flores, Goldstein, & others) 1998;65:833-5,CR

Ultrasound detection of diaphragmatic paralysis after cardiac operations (Yahagi, Watanabe, & Kumon) 1998;65:1841,CP

Use of aprotinin in pediatric organ transplantation (Spray) 1998;65:S71-3\*

Vertical displacement of the beating heart by the Octopus Tissue Stabilizer: influence on coronary flow (Gründemann, Borst, & others) 1998;65:1348-52\*

**Thoracoscopy**

Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*

Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

Clinical experience with thoracoscopic TMR versus minimally invasive approach (Vincent) 1998;65:599-600,CP; Reply (deGuzman & Cohn) 1998;65:600,CP

Experience with the two-windows method for mediastinal lymph node dissection in lung cancer (Iwasaki, Kaga, & others) 1998;65:800-2\*

Minimal access surgical techniques in coronary artery bypass grafting for triple-vessel disease (Lin, Chang, & others) 1998;65:407-12\*

Port-Access coronary artery bypass grafting with the use of cardiopulmonary bypass and cardioplegic arrest (Reichensperger, Guelmos, & others) 1998;65:413-8\*

Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW

Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*

Thoracoscopic operation for secondary pneumothorax under local and epidural anesthesia in high-risk patients (Mukaida, Andou, & others) 1998;65:924-6\*

Thoracoscopic operations on reoperated chests (Yim, Liu, & others) 1998;65:328-30\*

Thoracoscopic splanchicectomy for control of intractable pain in pancreatic cancer (Le Pimpec Barthes, Chapuis, & others) 1998;65:810-3\*

Thoracoscopic transmyocardial laser revascularization (Horvath) 1998;65:1439-41,CR

Thoracoscopic transmyocardial revascularization (Milano, Pietrabissa, & Bortolotti) 1998;65:1510-1,CP; Reply (deGuzman & Cohn) 1998;65:1511,CP

Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffeler, Gugger, & others) 1998;65:319-23\*

**Thoracostomy**

Open-window thoracostomy and thoracomyoplasty to manage chronic pleural empyema (García-Yuste, Ramos, & others) 1998;65:818-22\*

**Thoracotomy**

Combined TMR and mitral valve replacement via left thoracotomy (Hughes, Donovan, & others) 1998;65:1141-3,CR

Impact of retrograde cerebral perfusion with posterolateral thoracotomy on distal arch aneurysm repair (Yamashita, Okada, & others) 1998;65:955-60\*

Partial breast necrosis after MIDCABG via small anterolateral thoracotomy (Har-Shai, Ammar, & others) 1998;65:553-5,CR

Postthoracotomy pain (Richardson, Smith, & others) 1998;65:300-1,CP; Reply (Salzer) 1998;65:301-2,CP

**Thrombolytic therapy**

Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

**Thrombosis**  
 Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

**Thromboxanes**  
 Thromboxane production in human lung during cardiopulmonary bypass: beneficial effect of aspirin? (Erez, Erman, & others) 1998;65:101-6\*

**Thymectomy**  
 Long-term clinical outcome after transcervical thymectomy for myasthenia gravis (Bril, Kojic, & others) 1998;65:1520-2\*

**Thymoma**  
 Steroids for pulmonary metastases of thymoma (Weissberg) 1998;65:1197-8,CP; Reply (Kodama, Higashiyama, & others) 1998;65:1198,CP

**Tissue donors**  
 Allograft heart valve viability and valve-processing variables (Gall, Smith, & others) 1998;65:1032-8\*  
 Metabolic detriment in donor heart valves induced by ischemia and cryopreservation (Lu, Chang, & others) 1998;65:24-7\*  
 The role of gender in heart transplantation (Prendergast, Furukawa, & others) 1998;65:88-94\*

**Tomography**  
 Infectious mediastinitis after cardiac operations: computed tomographic findings (Misawa, Fuse, & Hasegawa) 1998;65:622-4\*  
 Left main coronary artery patch angioplasty: midterm experience and follow-up with spiral computed tomography (Meseguer, Hurlé, & others) 1998;65:1594-8\*  
 MRI as an alternative to CT-guided biopsy of adrenal masses in patients with lung cancer (Schwartz, Ginsberg, & others) 1998;65:193-7\*  
 Positron emission tomography in lung cancer (Lowe & Naunheim) 1998;65:1821-9,CV

**Trachea**  
 Experimental study of a new porous tracheal prosthesis (Guíjarro Jorge, Cantó, & others) 1998;65:1830-1,UP  
 Management of major tracheobronchial injuries: a 28-year experience (Rossbach, Johnson, & others) 1998;54:182-6\*  
 Percutaneous placement of tracheal T tube (Wood, Reynolds, & Vallières) 1998;65:557-8,CR  
 Primary malignant melanoma of the trachea (Duarte, Gal, & Mansour) 1998;65:559-60,CR  
 Resection with curative intent after endoscopic treatment of airway obstruction (Daddi, Puma, & others) 1998;65:203-7\*  
 Tracheobronchial laceration after double-lumen intubation for thoracic procedures (Spaggiari, Rusca, & others) 1998;65:1837-8,CP; Reply (Massard, Hentz, & Wihlm) 1998;65:1838-9,CP

**Tranexamic acid**  
 Prophylactic tranexamic acid and  $\epsilon$ -aminocaproic acid for primary myocardial revascularization (Hardy, Bélisle, & others) 1998;65:371-6\*

**Transplantation, autologous**  
 Reconstruction of supravalvar aortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR

**Transplantation, homologous**  
 Allograft heart valve viability and valve-processing variables (Gall, Smith, & others) 1998;65:1032-8\*  
 Behavior of mitral allografts in the tricuspid position in the growing sheep model (Bernal, Rabasa, & others) 1998;65:1326-30\*

**Homograft and SVC syndrome (Oyarzun & McCormick) 1998;65:1836-7,CP; Reply (Ohri & Townsend) 1998;65:1837,CP**  
**One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR**  
**Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR**  
**Should aortic valve homograft be recryopreserved? (Ohkado, Hachida, & others) 1998;65:1083-6\***  
**Transposition of great vessels**  
 Direct reconstruction of the pulmonary artery during the arterial switch operation: an interesting surgical option with excellent hemodynamic results (Carrel, Mattila, & others) 1998;65:1115-9\*  
**Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR**  
**Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR**  
**Treatment outcome**  
 Bronchopulmonary aspergillosis: a reappraisal (Chatzimichalis, Massard, & others) 1998;65:927-9\*  
 Clinical results of the staged Fontan procedure in high-risk patients (Masuda, Kado, & others) 1998;65:1721-5\*  
 Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*  
 Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*  
 Heart retransplantation: a 23-year single-center clinical experience (Schnetzler, Pavie, & others) 1998;65:978-83\*  
 Increased risk and decreased morbidity of coronary artery bypass grafting between 1986 and 1994 (Estafanous, Loop, & Higgins) 1998;65:383-9\*  
 Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*  
 Late outcome of coronary artery bypass grafting in young versus older patients (Rohrer-Gubler, Niederhauser, & Turina) 1998;65:377-82\*  
 Late results and reintervention after aortic valvotomy for critical aortic stenosis in neonates and infants (Hawkins, Minich, & others) 1998;65:1758-63\*  
 Left main coronary artery patch angioplasty: midterm experience and follow-up with spiral computed tomography (Meseguer, Hurlé, & others) 1998;65:1594-8\*  
 Long-term clinical outcome after transcervical thymectomy for myasthenia gravis (Bril, Kojic, & others) 1998;65:1520-2\*  
 Long-term results after repair of complete atrioventricular septal defects: analysis of risk factors (Günther, Mazzitelli, & others) 1998;65:754-60\*  
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 Midterm results of free internal thoracic artery grafting for myocardial revascularization (Tashiro, Nakamura, & others) 1998;65:951-4\*  
 Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*

The Ross procedure: shorter hospital stay, decreased morbidity, and cost effective (Jaggers, Harrison, & others) 1998; 65:1553-8\*

#### Tricuspid atresia

Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998; 65:1783-4,CR

Surgical management of tricuspid atresia and anomalous left brachiocephalic vein (Koutlas, Wernovsky, & others) 1998; 65:1770-2,CR

#### Tricuspid valve

Behavior of mitral allografts in the tricuspid position in the growing sheep model (Bernal, Rabasa, & others) 1998; 65: 1326-30\*

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998; 65:550-1,CR

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998; 65:1450-2,CR

Suspension of straddling tricuspid valve chordae into the appropriate ventricle (van Son, Hambach, & Mohr) 1998; 65:850-2,HW

Tricuspid annuloplasty and ventricular plication for Ebstein's malformation (Vargas, Mengo, & others) 1998; 65:1755-7\*

Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998; 65:540-2,CR

#### Tricuspid valve insufficiency

Tricuspid valve repair in a mountaineer (Marchbank, Parums, & Westaby) 1998; 65:537-9,CR

#### Tricuspid valve stenosis

Bicuspidization for tricuspid stenosis (Victor & Nayak) 1998; 65:1468-70,HW

#### Troponin I

Levels of troponin I and cardiac enzymes after reinfusion of shed blood in coronary operations (De Paulis, Colla-grande, & others) 1998; 65:1617-20\*

Patterns and potential value of cardiac troponin I elevations after pediatric cardiac operations (Hirsch, Dent, & others) 1998; 65:1394-9\*

#### Truncus arteriosus

Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998; 65:260-3,CR

Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998; 65:1764-5,CR

Trends in the management of truncal valve insufficiency (McElhinney, Reddy, & others) 1998; 65:517-24\*

Truncal valve repair: initial experience in neonates (Black, Adatia, & Freedom) 1998; 65:1737-40\*

#### Tuberculosis

A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnosopoulos) 1998; 65:542-4,CR

#### Tumor necrosis factor

Increased myocardial tumor necrosis factor- $\alpha$  in a crystalloid-perfused model of cardiac ischemia-reperfusion injury (Meldrum, Cleveland, & others) 1998; 65:439-43\*

#### Tunica intima

Intima-adventitia apposition in end-to-side arterial anastomosis: an experimental study in the pig (Heijmen, Gründeman, & Borst) 1998; 65:705-11\*

#### Ulnar artery

Ulnar artery as a coronary bypass graft (Buxton, Chan, & others) 1998; 65:1020-4\*

#### Ultrafiltration

Effects of cardiopulmonary bypass and use of modified ultrafiltration (Ungerleider) 1998; 65:S35-9\*

Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998; 65:1105-9\*

#### Ultrasonics

Easy harvesting of radial artery with ultrasonically activated scalpel (Posacioğlu, Atay, & others) 1998; 65:984-5\*

Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998; 65:855-6,HW

Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998; 65:1802-4,HW

#### Ultrasonography

Ultrasound detection of diaphragmatic paralysis after cardiac operations (Yahagi, Watanabe, & Kumon) 1998; 65: 1841,CP

#### Ultrasonography, Doppler, transcranial

Control of Endoaortic Clamp position during Port-Access mitral valve operations using transcranial Doppler echography (Schneider, Falk, & others) 1998; 65:1481-2,HW

#### Updates

Esophageal carcinoma: surgery without preoperative adjuvant chemotherapy (Mansour, Thourani, & Cooper) 1998; 65: 1492-3,UP

Experimental study of a new porous tracheal prosthesis (Guíjarro Jorge, Cantó, & others) 1998; 65:1830-1,UP

Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Spotnitz) 1998; 65:592-3,UP

Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius) 1998; 65:877-8,UP

Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & Lemole) 1998; 65:1186-7,UP

#### Vagus nerve

Bradycardia induced by intravascular versus direct stimulation of the vagus nerve (Thompson, Levett, & others) 1998; 65:637-42\*

#### Vascular cell adhesion molecule-I

Expression of vascular adhesion molecules in saphenous vein coronary bypass grafts (Chester, Morrison, & Yacoub) 1998; 65:1685-9\*

#### Vascular resistance

"Low SVR syndrome" or SIRS after cardiac operations? (Myles & Davis) 1998; 65:298,CP

Pulmonary vascular resistance of children treated with nitrogen during early infancy (Hirsch, Dent, & others) 1998; 65: 1394-9\*

#### Vascular surgical procedures

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998; 65:1135-7,CR

Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998; 65:768-70\*

#### Vasodilation

Hypoxia increases vasodilator release from internal mammary artery and saphenous vein grafts (Pearson, Evora, & others) 1998; 65:1220-5\*

#### Vena cava, inferior

Resection of a pulmonary malignancy invading the intraperitoneal inferior vena cava (Roberts, Abbott, & others) 1998; 65:263-5,CR

**Vena cava, superior**

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hampsch, & Mohr) 1998;65:280-1,HW

**Venae cavae**

Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*

**Ventricular function**

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

**Ventricular function, left**

Growth potential and left ventricular diastolic function in cardiomyoplasty (Misawa, Fuse, & others) 1998;65:1288-90\*

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

Surgical anatomy of aorto-left ventricular tunnel (Ho, Muriago, & others) 1998;65:509-14\*

**Ventricular function, right**

Effects of cardiomyoplasty on right ventricular filling during volume loading (Toyoda, Okada, & others) 1998;65:1676-9\*

Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

**Ventricular outflow obstruction**

Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*

Modified Konno-Rastan procedure for subaortic stenosis: indications, operative techniques, and results (Roughneen, DeLeon, & others) 1998;65:1368-76\*

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

**Ventricular septal rupture**

Early repair of postinfarction ventricular septal rupture: infarct exclusion, septal stabilization, and left ventricular remodeling (de Boer & de Boer) 1998;65:853-4,HW

**Video-assisted thoracic surgery**

Efficiency of video-assisted thoracic surgery for primary and secondary spontaneous pneumothorax (Passlick, Born, & others) 1998;65:324-7\*

Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR

Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*

Thoracoscopic operations on reoperated chests (Yim, Liu, & others) 1998;65:328-30\*

Video-assisted modified Abruzzini technique for bronchopleural fistula repair (Spaggiari, Carbognani, & others) 1998;65:1198-9,CP; Reply (Brutel de la Riviere, Knaepen, & van Swieten) 1998;65:1199-200,CP

Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffler, Gugger, & others) 1998;65:319-23\*

**Wounds, gunshot**

Blunt cardiac rupture caused by zip gun backfire (Fulton, De Groot, & others) 1998;65:837-9,CR

Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

**Wounds and injuries**

Delayed presentation of traumatic parasternal lung hernia (Jacka & Luison) 1998;65:1150-1,CR

Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92,CV

Laceration of the external iliac artery with a pediatric intraarteric balloon catheter (Sogawa, Watanabe, & Hayashi) 1998;65:892,CP

Management of major tracheobronchial injuries: a 28-year experience (Rossbach, Johnson, & others) 1998;54:182-6\*

Proximal aortic control in traumatic rupture of the thoracic aorta (Williams) 1998;65:1797,HW

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sîrbu, Herse, & others) 1998;65:548-50,CR

Surgical indications and timing of repair of traumatic ruptures of the thoracic aorta (Galli, Pacini, & others) 1998;65:461-4\*

Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

**Xiphoid bone**

Transxiphoid approach without median sternotomy for the repair of atrial septal defects (Barbero-Marcial, Tanamati, & others) 1998;65:771-4\*

